Practice, Practice, Practice

Please round your answers to the nearest hundredth. Show ALL of you work!

1. Given: 0.595 g Zn Unknown: number of moles of Zn

2. Given: 2.72 x 10 -4 g Li Unknown: moles of Li

3. Given: 2500 atoms of Sn Unknown: moles of Sn

4. Given: 2.75 moles of Al Unknown: number of Al atoms

5. Given: 79.84 kg Iron Unknown: amount of atoms of Iron

6. Given: 16.3 moles Ni Unknown: grams of Ni

7. Given: 4.61 x 1017 atoms of radon Unknown: number of moles of radon

8. Given: 0.6144 moles of copper Unknown: number of atoms of copper

9. Given: 0.0082 g of gold Unknown: number of atoms of gold

10. The weight of a diamond is given in carats. One carat is equivalent to 200 mg. A pure diamond is made up entirely of carbon atoms. How many carbon atoms make up a 1.0 carat diamond?

11. How many moles are in 453.6g (1 pound) of sucrose (C12H22O11)?

12. How many atoms are in 1.0 pound of NaCl?